

ForceHone

rapid/powerful/robust

designed for quicker component
turn-around and faster honing



ForceHone
rapid/powerful/robust

Welcome to the delapena group

delapena group are leading honing specialists in the UK and around the world.

We design and manufacture a wide range of standard and bespoke honing machines, tooling and abrasives for the Automotive, Aerospace and other manufacturing sectors.

Our services include application development, bespoke tooling design, process engineering, tooling refurbishment, maintenance, consultancy and training.



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Introducing the ForceHone

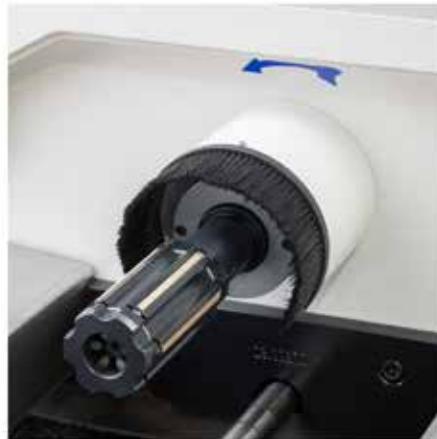
rapid/powerful/robust

In toolrooms across the world you will find a delapena SpeedHone, the compact essential honing machine.

Recent years the demand for intuitive programming and push button operation has led to the design and manufacture of the ForceHone, big brother to the SpeedHone

With safe practices, easy automatic operation and the use of super abrasives, the ForceHone has helped to deskill the art of honing, enabling honing to grow in usefulness across a multitude of industries.





Feature & benefits

Capable of honing diameters up to 80mm, with a powerful spindle motor and an innovative carriage system, the ForceHone is designed for versatility coupled with high productivity.

Fully programmable rotation speeds up to 2500rpm & reciprocation speeds of up to 70m/min.

Fully interlocking sliding safety guards allows unrestricted access when setting and its ergonomic design makes the ForceHone operator friendly and easy to use.

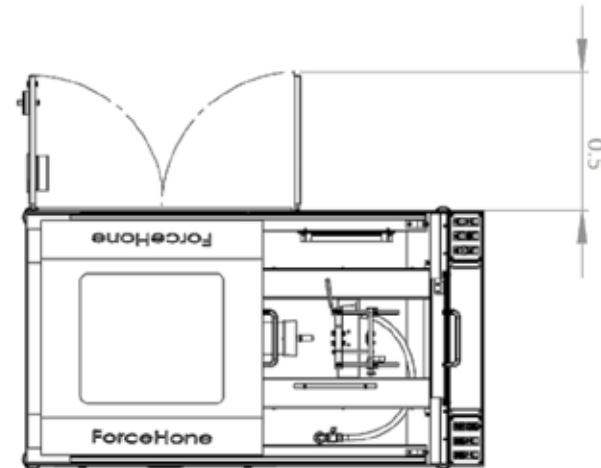
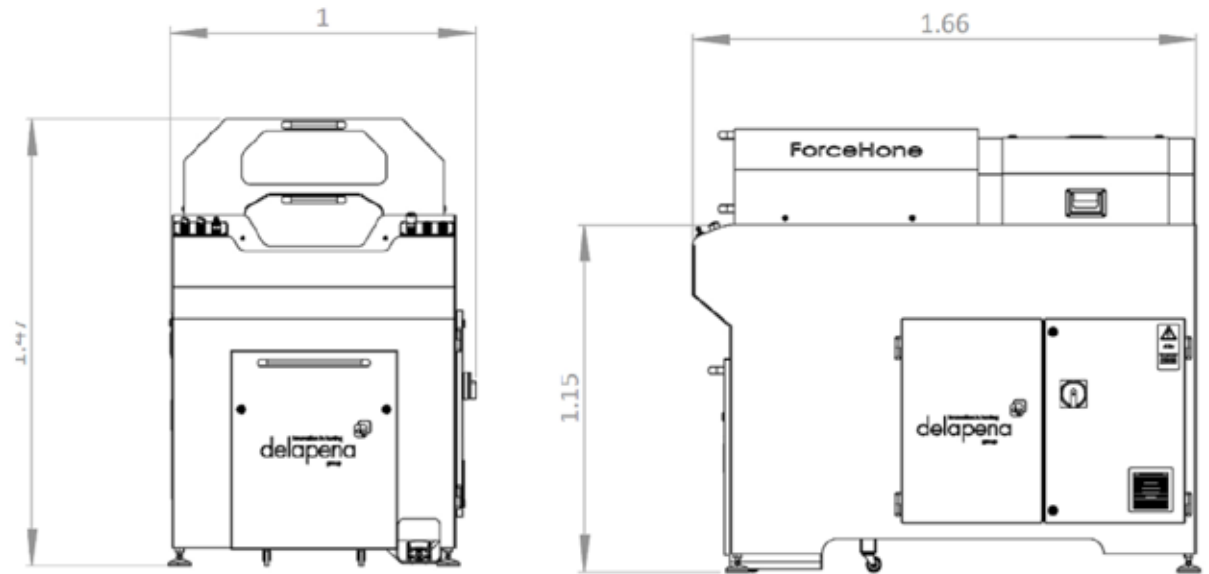
Siemens drives & an HMI display makes programming simple and fast.

Compact and space saving, the ForceHone is the ideal tool for any workshop.

pioneering the way forward in honing

Floor plan

rapid
powerful
robust



Technical specifications

Capacity

Diameter range - 1.14 - 80mm
Maximum reciprocation length - 250mm

Motors

Rotation speed 250- 2500rpm
Rotation motor power 1.3kW
Reciprocation speed 1 - 70/min
Reciprocation motor power 4.5Nm

Control

Siemen`s simatic HMI KTP400

Expansion System

Feed Type - Programmable electro-mechanical
Feed Rate - Programmable + Timer
Feed Increment - 1 micron increments per second

Electrical System

Conformity - UKCA/CE
Approved
Voltage - 380-415V, 3
Phase, 50Hz
Control Voltage - 24 VDC

Coolant System

Integral - 70L fluid tank with magnetic filtering

Weight

Net - 850kg approx.
Gross - 1000kg approx.

delapena

complete honing supplier

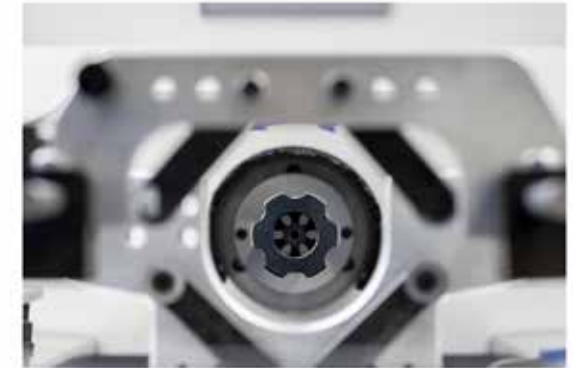
Tooling

At delapena we design, manufacture design an extensive range of standard and bespoke honing tooling and fixtures, in addition to specialist fittings for many other manufactures machines.

For every machine delapena makes a tool. Not only for special modifications on standard tooling, but for tools yet to be invented.

Our vertical tooling is throughout the world on a multitude of components and applications, with honing mandrels and horizontal tooling found in thousands of tool rooms..

The scope of our tooling capability is without limit and our expertise is matched by the quality of our service.



pioneering the way forward in honing

Tooling refurbishment facility

delapena offers a complete comprehensive refurbishment service for any tool, replacing abrasives, guides, and any other component of a tool in order to bring it to full working order.



Honing consultancy

Un-trained staff or inexperienced machine set up can bring your production to a stand still, resulting in a significant impact on your organisation's productivity. Our engineers can provide one-off troubleshooting, daily/weekly honing consultancy or training days to your honing and maintenance teams.



Machine services

To keep your components flowing at their optimal condition our engineers offer complete honing machine services.. We offer annually or fixed term service contracts.



complete honing supplier services & solutions

delapena group are experts in the honing market, readily sharing our knowledge and expertise, making us a trusted and valued partner.

Our services include bespoke tooling and machine design, reverse engineering of existing tooling as well as application development, abrasive development, honing consultancy, training, machine servicing and much more.

The wider range

Selection of new generation honing machines

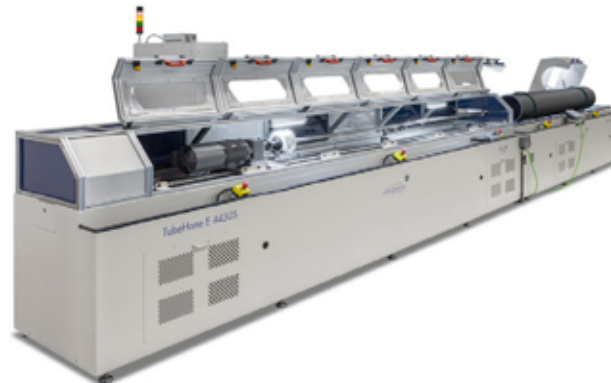
Our range of honing machines are user-friendly and versatile, producing consistently high-quality results. delapena honing machines feature control systems that allow for easy setup and storage of programs, with our iHone software making this easier than ever before on our range of new flagship machines.

delapena honing machines can be found in businesses all over the world. We provide comprehensive support, training, and guidance throughout commissioning and beyond.



PowerHone E precise/efficient/versatile

The PowerHone E is a vertical honing machine for large and heavy components in small to medium batches and prototypes. Designed for both through and blind bores, producing an excellent surface finish



TubeHone dynamic/commanding/dominant

The TubeHone is the ideal machine for cylinders up to 4m in length. Our standard TubeHone hones up to 650mm bores, with bespoke options up to 1m. Powerful motors and a belt drive system ensure rapid stock removal.



PrecisionHone flagship/advanced/accurate

Our flagship machine, the PrecisionHone is a vertical honing machine for production honing of small parts. Accurate and packed with features, for large batch work and tight tolerances the PrecisionHone is the machine of choice. Now featuring our iHone technology; enabling ease of use and fast set up.



intelligent honing

delapena brings you iHone, a graphical icon based machine interface designed to simplify the process of programming our honing machines. Using Siemens` touchscreen technology we now offer a conversational style interface that is easy to use, but still packed with features.

Much of our honing knowledge and best practices are baked into the iHone system, included are on-screen help pages enabling the operator to diagnose geometry and finish issues on the machine. The controller allows for extensive program storage enabling fast setup of repeat work maximising productivity.

Features

Large icon based function keys allow you to modify honing data on the fly and access in-process features.

In process monitors allows you to determine machine status at a glance from motor torques to cycle-time monitors.

Programs can be stored for later recall facilitating minimum set up time for repeat work.

Parameters are entered in a logical order and all pages accompanied by clear graphics to highlight the effect of each parameter.

The lower panel contains primary functions such as cycle time, mode select & emergency stop buttons.

All this is facilitated by a Siemens touchscreen panel that can be maneuvered to suit the operator.



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